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8. Grigori Perelman □ Poincaré conjecture □□
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9. Demis Hassabis □ AlphaGo Zero □□□□□□□ intuition□□□□□□□□□□□□ intuition □□□□
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meta-solution to any problem□

10. □□ AlphaGo Zero □□□□ Nature □□□□□□□□ superhuman performance□□□□□□□□□□□□
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15. □□□□□□□□□□□□□□□□□□□□□□□□□Freeman Dyson □□□ Birds and Frogs □□ birds □

frogs □□

16. □□□□□□□□□□□（Austrian School of Economics）□□

17. □□□□□□□□□□□□□□□□□□□□□□□□□□（free will）□□

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21. □□Turing Machine □□□（deterministic, probabilistic, etc.）□□□□□□□□□□□

22. □□□ Turing Test □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ SAE level 4 □ level 5 □□□

23. □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ encoder-decoder, attention, transformer, BERT □□

24. □□□□□□□□ deep-learning □□□□□ deep residual networks □□□□□（generative adversarial networks, etc.）□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

25. □□□□□□□□□□□ Universal Approximation Theorem □□□□□□□□□□□□□□□□□□□□□□□□□ overfitting□underfitting □□□□□□□□□□□□ chaos phenomena □□□□□□□□□□□

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